ASTD/TDI Project Static Report

Drum Bubbler Tritium Processing System - PROJECT CANCELLED

Focus Area: Decontamination and Decommissioning Focus Area
TTP No.: CH09DD61
Lead Site: Chicago
Project No.: 99-ASTD-09
Tech ID/TMS No.:

Focus Area Manager: John Duda, (304) 285-4217
Principal Investigator: Steve Raftopoulos, (609) 243-3626

Technology Vendor(s)/Commercial Partner(s):
Qualprotech, Ontario-Hydro

Related Publication(s): None

Web Page(s):

Description: The Drum Bubbler Tritium Processing System consists of a 55-gallon drum water aeration system. This aeration process is effective for removing tritium oxide, from a gas process stream. A separate freestanding support cart provides the mechanism for the flow of gas through the water aeration system using a vacuum pump. The cart contains a refrigeration unit to condense the moisture from the drum exhaust gas stream and return the liquid to the drum. The resulting exhaust stream is dry air containing less than 10 percer of the original tritium oxide. Hence, the system is 90 percent effective for removing tritium oxide from a gas process stream. The system is typically interfaced with a system or component being purged of tritium. The bubbler is designed to transfer the water when it attains a predetermined curie level to another closed-top 55-gallon drum for solidification and disposal.

Application: Sites performing routine surface tritium monitoring.

Location(s): Princeton Plasma Physics Lab

Technology(ies):

55-Gallon Drum, Aeration, Vacuum Pump

Funding ($K):	FY-98	FY-99	FY-00	FY-01	Total
TTP No.: CH09DD61	$0	$5	$0	$0	$5
Leverage Source: --					$0
				Funding Total ($K):	$5

Cost Savings ($M):	Proposal	Deployment Plan/TTP	Current Focus Area Projection
	$234	--	--